NAVAIR Overview

Presented To:

Presented By:





NAVAIR History



1911 – First Navy aircraft purchased from the Glenn Curtiss company of Hammondsport, NY

1921 – Bureau of Aeronautics was created. Prior to that, the ownership of all aircraft was distributed across the Navy

At the start of World War II, the Navy had 1,800 combat aircraft. By the end of the war, the Navy had 41,000 total aircraft.

1959 – BUAER merged with Bureau of Ordnance (BUORD) to form Bureau of Naval Weapons (BUWEPS)



1966 – Naval Air Systems Command (NAVAIRSYSCOM) established

1985 – NAVAIR now reports directly to Chief of Naval Operations (CNO)

1990's – NAVAIRSYSCOM moves to Patuxent River Naval Air Station



NAVAIR's Role in Naval Aviation

 Develop, acquire and support aircraft, weapons and related systems which can be operated and sustained at sea

 Provide analysis and decision support for cost / schedule / performance trades and investment decisions

 Increase Navy and Marine Corps capability, readiness and affordability in a joint / coalition environment





Our capabilities support the unique mission of naval aviation



NAVAIR Strategic Imperatives

Align existing resources to better support today's Readiness

Fixing existing issues | Predictive vice reactive | Tactical and strategic





Increase Speed of Products to the Fleet

Accept more risk – Well understood, balanced, managed risk acceptance
Change program team staffing model (smaller and more empowered)
Significantly reduce "derived requirements" – Across the Board!
Resource rapid response capabilities to maximum capacity (e.g. AIRWorks)

Ready to Fight Tonight.

Capabilities and Capacity to

Win the Future.





CNO and CMC Alignment



"We have got to move faster. We have got to learn faster. We've got to adjust our acquisition systems to adopt that technology faster... I need an acquisition system that will allow for quick technology refreshes to continuously improve performance, rather than relying on massive game changers every 20 years"

- CNO John Richardson

"We must continue to improve our readiness for today's fight, while at the same time ensuring we remain relevant for the conflicts we know will come in the future."

- CMC Robert Neller "Message from the Commandant"





Strategy Alignment

CNO

NAVAIR

CMC

Strengthen Naval Power

Ready to operate and fight, and advance information warfare capabilities



Increase Readiness, Affordability and Speed

Ready to fight tonight –
Capabilities and capacity to win
the future



Readiness

Expand readiness efforts, and experiment and test new concepts and capabilities

High Velocity Learning at All Levels

Accelerate learning, innovation and creativity, and expand learning-centered technologies



Learning, Knowledge Management

Encourage creativity, innovation, hands-on learning through collaboration tools



Training and Simulation

Ensure business models and operating concepts are relevant and adaptive, and focus on innovation and learning

Strengthen our Navy Team for the Future

Accelerate Sailor 2025 efforts and strengthen leadership development programs



Agile, Adaptive Workforce

Smaller, flexible and empowered teams that take well understood, balanced risks, and develop leaders at all levels



People

Ensure our workforce is the right size with the right skill sets, and focus on new-age training/education continuum

Expand/Strengthen Network of Partners

Integration with Joint Services and increase interaction with industry, non-traditional partners



Mature Government / Industry Partnerships

Robust government, industry and service partnerships, and FMS engagement



Integration with Naval and Joint Force

Shape our force to operate as part of the Joint Force to leverage capabilities of all branches

Source: USMC FRAGO: Advance to Contact Released 19 Jan 2016

Source: A Design for Maintaining Maritime Superiority Released 5 Jan 2016



NAVAIR Snapshot

Full Life-Cycle Management

Requests, Risks from Fleet, OPNAV Materiel Solution Analysis Technology Maturation & Risk Reduction Engineering and Manufacturing Development

Production & Deployment

Operations & Support



Products



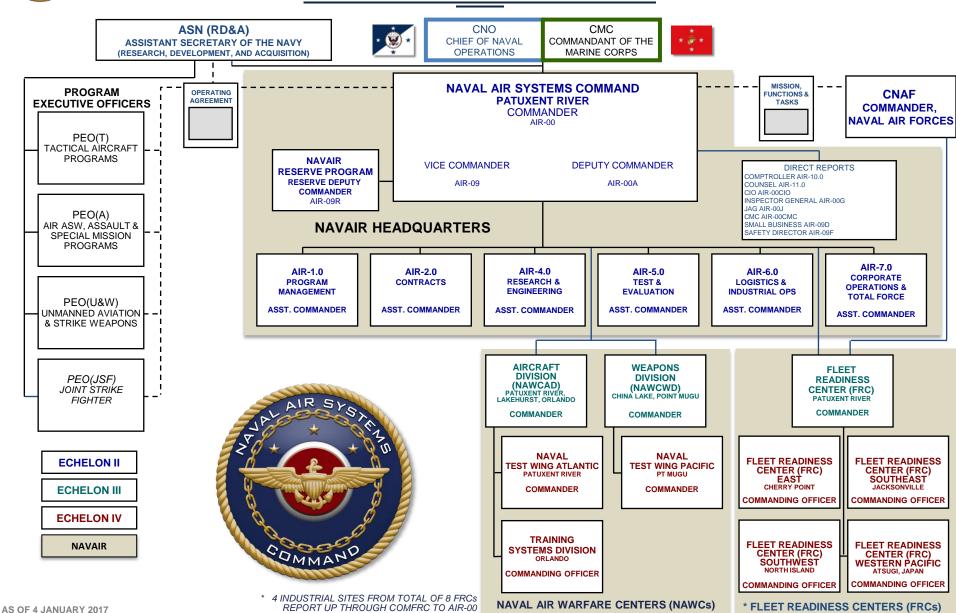








NAVAIR ORGANIZATION





Naval Air Warfare Center Aircraft Division

Aircraft



Training

Launch & Recovery





The Navy's principal RDAT&E, engineering and fleet support activity for naval aircraft, engines, avionics, support systems and ship/shore/air integration.

Orlando (NAWCTSD)



NAWCAD Key Resources

Lakehurst, New Jersey

- 123 Structures totaling 1,057,831 sq. ft. on 7,400 acres
- Aircraft Platform Interface Lab
- EMALS Test Site
- Steam Catapult Complex
- Runway Arrested Landing Site

- Jet Car track Site
- Jet Blast Deflector Site
- Carrier Analysis Facility
- Prototype & Manufacturing Facility





Patuxent River, Maryland

- 665 Structures on 13,812 acres, with 10 Hangars, 5 Runways
- 2,700 sq. miles Patuxent Special Use Airspace to 85,000 ft.
- Access to more than 50,000 sq. miles of additional offshore air and sea space
- Anechoic Chamber, Becker Lab, ACETEF, SAIL, APF, P&P

- Test Wing Atlantic, USNTPS, Webster Field
- Controlled RF environment
- Over-water Approaches
 Instrumentation & Fabrication

St. Inigoes, Maryland

- 60 Buildings on 852 acres with 2 Active Runways
- Shipboard ATC/Combat ID
- Ship/Shore Communications
- Controlled RF environment

- Over-water Approaches
- Aircraft tracking opportunities
- Pier and shoreline access





Orlando, Florida

- 40.5 acres and co-located with Team Orlando
- Navy NSA, NAWCTSD
- Army PEO-STRI, RDECOM

- USAF AFAMS
- Coast Guard
- USMC PMTRASYS



Naval Air Warfare Center Weapons Division

Mission

The Naval Air Warfare Center Weapons Division (NAWCWD) is an organization within NAVAIR dedicated to maintaining a center of excellence in weapons development for the Department of the Navy

Research and Development

Ranges and Facilities to Test and Evaluate Navy
Systems

In-service Support/System Phase-out

Missiles/Freefall Weapons

Weapon System Integration

Electronic Warfare Systems

Land Range/Sea Range

Non-Lethal Weapons

China Lake, CA

Point Mugu, CA





NAVAIR Ranges



NAWCWD Ranges

- R2508 Complex Airspace
 - · Approximately 20,000 square miles
 - 20,000 feet (FL200) to unlimited altitude
- China Lake Land Ranges
 - Approximately 1.1 Million Acres
 - · Surface to unlimited altitude
- IR-200 Low Level route connecting
 Sea and Land Ranges

- Point Mugu Sea Range
 - Warning Areas 36,000 square miles; expandable to 220,000 square miles
 - Surface to unlimited altitude
 - Extensive area for supersonic testing
 - Unique geography for Directed Energy Testing

Atlantic Test Ranges

- Chesapeake Test Range
 - Approximately 2,700 square miles controlled airspace
 - Surface to 85,000 feet
- Offshore Ranges
 - Access to 50,000 square miles in the mid-Atlantic Warning Area
 - · Surface to unlimited altitude









COMFRC Mission

Commander, Fleet Readiness Centers (COMFRC) delivers effective and efficient flight-line readiness through a globally managed, responsive and integrated sustainment system.













Fleet Readiness Center Locations





Naval Aviation Maintenance

Three Levels of Aircraft Maintenance

On-Aircraft Maintenance



Off-Aircraft Maintenance



Off-Aircraft Maintenance



Maintenance Organization (COMFRC)

Level 1 – Organizational Level

Squadron Level
Servicing
Replace Parts

Level 2 – Intermediate Level (Level 2)

Components / Engines
Scheduled maintenance
In-service Repair

Depot Level (Level 3)

Scheduled maintenance
Modifications
In-Service Repair
Field Team In-Service Repair
Manufacture





NAVAIR Products

Fixed Wing





Rotorcraft

Weapons







Unmanned Air Systems

Aviation Systems





PEO(T) Programs



Multifunctional Information Distribution System

PMA-231

E-2 / C-2

PMA-234

Airborne Electronic Attack Systems & EA-6B Prowler

PMA-251

Aircraft Launch and Recovery Equipment

PMA-257

AV-8B Harrier

PMA-259

Air-to-Air Missile Systems

PMA-272

Advanced Tactical Aircraft Protection Systems

PMA-265

F/A-18 / EA-18G

PMA-298

Air Warfare Mission Area

PMA-213

Naval Air Traffic Management Systems

PMA-273

Naval Undergraduate Flight Training Systems





PEO(A) Programs



Heavy Lift Helicopters

PMA-264

Air ASW Systems

PMA-275

V-22 Osprey

PMA-276

Light / Attack Helicopters

PMA-299

Multi-Mission Helicopters

PMA-290

Maritime Patrol & Reconnaissance Aircraft

PMA-271

Airborne Strategic Command, Control & Communications

PMA-207

Commercial Transport & Support

PMA-274

Presidential / Executive Lift Helicopters





PEO(U&W) Programs





AIR-1.0 Programs

PMA-260

Aviation Support Equipment





PMA-205

Aviation Training Systems

PMA-226

Specialized and Proven Aircraft







PMA-202

Aircrew Systems

PMA-209

Air Combat Electronics





PMW/A-170

Communication and GPS Navigation

Program Management Competency/Functional Lead

Policy / Process / Tools Stewardship across AIR-1.0 and PEO (A, T, U&W, JSF) Programs



Delivering Results



Actual FY16 Deliveries

136 New Aircraft

15,108 Missiles / Bombs

129* Unmanned Air Vehicles (UAV)

6 UAV Ground Systems

41 Training Devices

494 Aircraft Repairs (Includes Commercial/Inter-Service)

1,777 Engine Repairs (Includes Commercial/Inter-Service)

68,893 Component Repairs

4,506 Support Equipment Repairs

* Includes Program of Record and Non-PoR UAVs for USMC (PMA-263)



Naval Aviation Enterprise

Mission

Sustain required current readiness and advance future warfighting capabilities at best possible cost.

NAVAIR is part of the Naval Aviation Enterprise (NAE)

Led by Commander, Naval Air Forces; Marine Corps Deputy Commandant for Aviation; Commander, NAVAIR

Includes all naval aviation communities

Facilitates collaboration, information sharing and process improvement

Helps stakeholders understand costs, readiness degraders and resources

Ensures naval aviation is aligned, from the warfighter at sea or on the ground to the providers in government and industry













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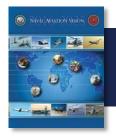
Fleet Requests

www.navair.navy.mil/index.cfm?fuseaction=home.contact_us



Naval Aviation News

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